

## EXECUTIVE SUMMARY

Prepared November 9, 1990

Mine Name: Quarry Antone  
Operator: Lone Star Industries  
dba Utah Portland Quarries, Inc.  
P. O. Box 1469  
Salt Lake City, Utah 84110  
Telephone: (801) 277-1256  
Contact Person: Ashby Decker

I.D. No: M/045/021  
County: Tooele  
New/Existing: Existing  
Mineral Ownership: Operator  
Surface Ownership: Operator  
Lease No.(s): N/A  
Permit Term: Life of Mine

Life of Mine: 10 years

Legal Description: NE1/4 Section 18, NW1/4 Section 17, SW1/4 Section 8, T2S, R6W, SLBM,  
Tooele County, Utah

Mineral(s) to be Mined: Shale

Mining Methods: Surface Mine

Acres to be Disturbed: 13.3 acres

Present Land Use: Rangeland and mining

Postmining Land Use: Rangeland

Variances from Reclamation Standards (Rule R613) Granted: R613-004-111(7) Highwalls and  
R613-004-111(13) Revegetation

### Soils and Geology:

Soil Description: Upland gravelly loam

pH: 7.7

Special Handling Problems: Slight to moderate erosion hazard

Geology Description: Mississippian age Great Blue Limestone/Manning Canyon Shale. Dip of  
beds is approximately 70 degrees

Hydrology:

Ground Water Description: Water table is located below the zone of mining.

Surface Water Description: An ephemeral drainage crossing the mine site will be diverted around the operation and adequately protected from erosion. No perennial water is found on the permit area.

Water Monitoring Plan: None required

Ecology:

Vegetation Type(s); Dominant Species: Sagebrush, Sanberg bluegrass, Bluebunch wheatgrass, Juniper and Needle and thread grass.

Percent Surrounding Vegetative Cover: 65 percent

Wildlife Concerns: No significant concerns identified.

Surface Facilities: None proposed.

Mining and Reclamation Plan Summary: . . . . .

During Operations:

1. Lone Star Industries will develop and operate a 10-year open pit shale quarry. Open pit mining will proceed from south to north. Two to four feet of overburden material will be removed with dozers and stockpiled for reclamation. The shale deposit will then be mined to a depth of approximately 70 feet utilizing dozers with rippers and front-end loaders.
2. The operation will disturb approximately three acres initially and five additional acres every five years.
3. Prior to each mining advance, topsoil will be stripped, stockpiled and protected from erosion.

4. Mined rock will be transported by truck to Salt Lake City for processing. There will be no waste piles, buildings, foundations, sewage or any associated facilities located on the mine site.

Following Operations:

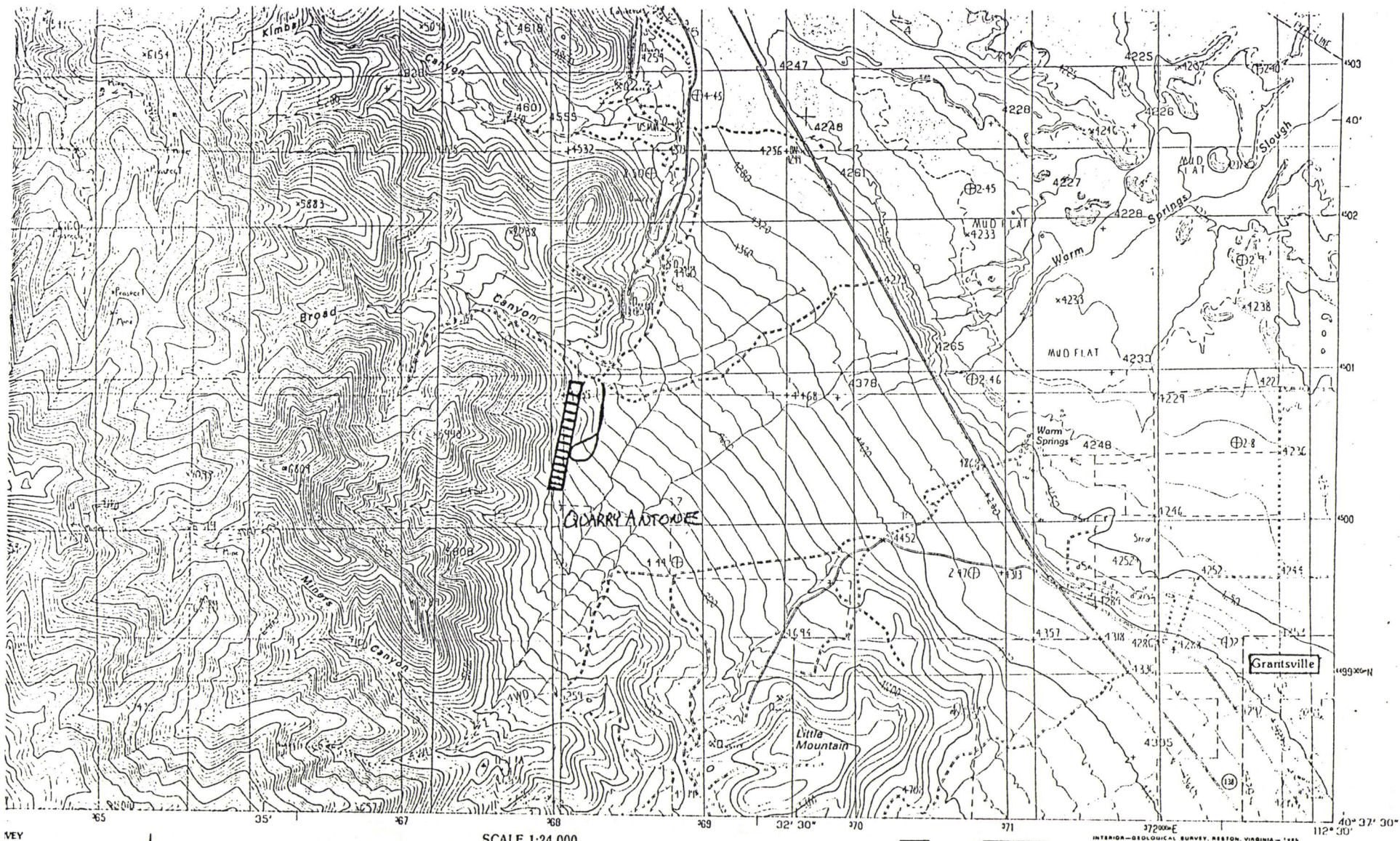
1. All equipment and extraneous debris will be removed from the minesite.
2. All disturbed areas, including roads, pads and benches will be stabilized and graded to a rounded configuration with slopes not exceeding 2H:1V. Highwalls will be left in a stable condition.
3. Upon reclamation, the stockpiled topsoil will be spread over all disturbed areas including the terraced benches.
4. Standard agronomic practices will be used to prepare the seedbed for drill and/or broadcast seeding. Disturbed areas will be reclaimed with native vegetative species.

Surety:

Amount: \$34,400 (1995 dollars)  
Form: Surety Bond  
Renewable Term: 5 years

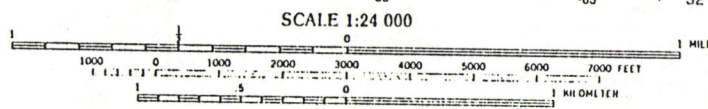
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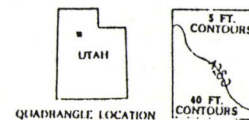
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NORTH



CONTOUR INTERVAL 5 AND 40 FEET

THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS  
 FOR SALE BY U.S. GEOLOGICAL SURVEY, DENVER, COLORADO 80225  
 OR RESTON, VIRGINIA 22092



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ADJOINING 7.5 QUADRANGLE NAMES

ROAD LEGEND  
 Improved Road .....  
 Unimproved Road .....  
 Trail .....  
 Interstate Route ( ) U.S. Route ( ) State Route

FLUX, UTAH  
 PROVISIONAL EDITION 1985

40112-F5-TF-024

PROVISIONAL MAP  
 Produced from original  
 manuscript drawings. Infor-  
 mation shown as of date of  
 field check.

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